

CLAIMS:

1. A method of producing a molded polyurethane foam by casting a polyurethane foam material into a mold cavity and
5 foaming said polyurethane foam material, wherein said polyurethane foam material is one which gives, upon free foaming, a foam composed of cells with an aspect ratio of from 1 to 2.5.
- 10 2. The method of producing a molded polyurethane foam as defined in claim 1, wherein said polyurethane foam material comprises a polyol component, an isocyanate component, and a silicone foam stabilizer.
- 15 3. The method of producing a molded polyurethane foam as defined in claim 2, wherein the silicone foam stabilizer is used in an amount equal to or less than 10 pbw for 100 pbw of the polyol component.
- 20 4. The method of producing a molded polyurethane foam as defined in claim 2 or 3, wherein the polyol component comprises 40 to 100 wt% of sucrose-based polyol, 0 to 40 wt% of aromatic amine polyol, and 0 to 60 wt% of aliphatic amine polyol.
- 25 5. The method of producing a molded polyurethane foam as defined in any one of claims 1 to 4, wherein the molded polyurethane foam is a molded rigid polyurethane foam.
- 30 6. The method of producing a molded polyurethane foam as defined in any one of claims 1 to 5, wherein the molded polyurethane foam is an energy-absorbing material.
- 35 7. The method of producing a molded polyurethane foam as defined in any one of claims 1 to 6, wherein the molded polyurethane foam is a sheet-like polyurethane foam.

8. The method of producing a molded polyurethane foam as defined in claim 7, wherein the sheet-like polyurethane foam is one which has a thickness equal to or thinner than 40 mm.
- 5 9. A molded polyurethane foam which is obtained by the method defined in any one of claims 1 to 8.